

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application: Seung Ho HONG et al.]
 Serial No: 09/607,014]
 Filed: June 29, 2000]
 For: REFLECTIVE TYPE-FRINGE]
 FIELD SWITCHING MODE LCD]

GRP ART UNIT: 2871

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CLAIMS - CLEAN VERSION

Please cancel Claim 3. ✓

Please replace Claims 1 and 7 with the clean versions of the amended Claims 1 and 7
 as set forth below:

1. (Twice Amended) A reflective type fringe field switching mode liquid crystal display

("a reflective FFS-LCD") comprising:

a liquid crystal layer having a plurality of the liquid crystal molecules;

a first substrate disposed on one side of the liquid crystal layer and a
 counter electrode and a pixel electrode formed on the first substrate for
 generating a fringe field to drive the liquid crystal molecules;

a second substrate disposed on the other side of the liquid crystal layer;

a first homogeneous alignment layer interposed between the liquid
 crystal layer and the first substrate and having a rubbing axis in a selected
 direction;

a second homogeneous alignment layer interposed between the liquid
 crystal layer and the second substrate, and having a rubbing axis in a selected
 direction;

a polarizer disposed on an outer surface of one of the first substrate and

the second substrate, and having a selected polarizing axis; and

a reflective plate disposed on an outer surface of the other of the first substrate and the second substrate,

wherein retardation in the liquid crystal layer is caused to occur in the absence of a quarter wave plate for retarding incident light by $\lambda/4$ when the liquid crystal molecules in the liquid crystal layer are driven by the fringe field and wherein λ is about 570 nm.

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end

7. (Twice Amended) A reflective FFS-LCD comprising:

a liquid crystal layer having a plurality of liquid crystal molecules;

a first substrate disposed on one side of the liquid crystal layer and a counter electrode and a pixel electrode formed on the first substrate for generating a fringe field to drive the liquid crystal molecules;

a second substrate disposed on the other side of the liquid crystal layer;

a first homogeneous alignment layer interposed between the liquid crystal layer and the first substrate and having a rubbing axis in a selected direction;

a second homogeneous alignment layer interposed between the liquid crystal axis in a selected direction anti-parallel to the rubbing axis of the first homogeneous alignment layer;

a polarizer disposed on an outer surface of one of the first substrate and the second substrate, and having a selected polarizing axis; and

a reflective plate disposed on an outer surface of the other substrate of the first substrate and the second substrate,

wherein the rubbing axes of the first and the second alignment layers are at an angle of 10 to 85° with a substrate projection line of the fringe field,

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wherein retardation in the liquid crystal layer is caused to occur in the absence of a quarter wave plate for retarding incident light by $\lambda/4$ when the liquid crystal molecules in the liquid crystal layer are driven by the fringe field and wherein λ is about 570 nm.

Bl
and